

Assistant Professor

School of Geosciences, University of South Florida

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23. . and Lam, N., (2016) “The Impact of Hurricane Katrina on Urban Growth in Louisiana: An Analysis Using Data Mining and Simulation Approaches”, *International Journal of Geographical Information Science* vol:30(9). DOI:10.1080/13658816.2016.1144886
24. Bianchette, T., Liu, K., , and Lam, N., (2015) “Wetl

Book Chapters

37. . (2021) “

4. "Data-Driven Approaches to Analyze Geographic Disparities in Flood Exposure and Community Resilience" in the 2021 Annual Workshop of Initiative on Coastal Adaptation and Resilience (iCAR) (virtual)
 5. "Big Data Approaches for Disaster Resilience Assessment" in the Fall Colloquium of School of Geosciences, University of South Florida, virtual, November, 2020
 6. "Scales as Additional Dimensions in Space and Time" in the Scale and Spatial Analytics Workshop, Spatial Analysis Research Center (SPARC), Arizona State University, February, 2020.
 7. "Tracing the Curves of Bouncing Back: Data Driven Methods for Assessing Disaster Resilience" in the Natural Resources & Environmental Management Research Seminar Series, University of Hawaii, Honolulu, HI, September 2019
 8. "Spatio-Temporal Data Mining and Analyses in a Multi-Scale Framework" in the 2019 Annual Meeting of American Association of Geographers, Washington, DC, 2019
 9. "Novel Models for Multi-Scale Spatial and Temporal Analyses" in the 10th International Conference of Geographical Information Science, Melbourne, Australia, August, 2018
 10. "Physical Exposure and Social Sensitivity: Sea Level Rise Impacts to Transportation through Vulnerability Assessment and Social Media Analysis" in 2018 PRiMO Conference Technology and Disaster Risk Reduction Honolulu, Hawaii, August, 2018.
 11. "Artificial Intelligence and Deep Learning in the Modeling of Coupled Natural and Human Dynamics" in 2018 Annual Meeting of AAG New Orleans, LA, April, 2018
 12. "A Systematic Evaluation of Surface-Adjusted Distance Measurements using a HPC-enabled Monte Carlo Simulation", in 2017 Annual Meeting of AAG Boston, Massachusetts, April 2017.
 13. "Modeling Long-Term Human Dynamics in Response to Natural Hazard Using Remote Sensing Data", in 2016 Annual Meeting of AAG San Francisco, California, March 2016.
 14. "High Performance Computing with Python for Geocomputation", in 2015 AAG CyberGIS Workshop, Chicago, Illinois, April 2015.
 15. "Modeling the Coupled-Natural and Human Dynamics in a Vulnerable Coastal System Using CyberInfrastructure", in 2015 annual meeting of the Association of American geographers Chicago, Illinois, April 2015.
 16. "Modeling Land Use and Land Cover Changes in A Vulnerable Coastal Region Using Artificial Neural Network", in 2014 annual meeting of the Association of American geographers Tampa, Florida, April 2014.
 17. "Comparing the Land Use Land Cover Change between the South and North Louisiana Using Data Mining", in the 2nd RSGIS workshop in Louisiana, Lafayette, Louisiana, April 2013
 18. "Multi-Scale Analysis of Linear Data in a Two-Dimensional Space", in workshop on space-time cube Enschede, the Netherlands, June 2012
 19. "Visualising and analysing time series data in GIS", in Workshop of Geospatial Visual Analytics: Focus on Time (GeoVa(t)) Guimarães, Portugal, May 2010
 20. "Triangular Model for Studying and Memorising Temporal Knowledge", in the International Conference of Education, Research and Innovation, Madrid, Spain, Nov. 2009
 21. "Towards a General Temporal Ontology for Knowledge Integration", in the International Conference on Knowledge Engineering and Ontology Development Entchal. Portugal, Oct. 2009
1. PI/PD: "CoPe EAGER: Collaborative Research: A GeoAI Data-Fusion Framework for Real-Time Assessment of Flood Damage and Transportation Resilience by Integrating Complex Sensor Datasets",

funded by NSF CoPECoastlines and People Program, \$40,000, duration 2020-2021, collaborating with University of Wisconsin-Madison and University of Texas at Arlington.

2. PI/PD: “Cross-Scale Spatiotemporal Modeling Using an Integrated Data Framework”, funded by NSF Methodology, Measurement, and Statistics and Geography and Geospatial Science Programs, \$150,000, duration: 2019 – 2022, with University of Hawaii - Manoa and University of Colorado – Boulder.

4. Leilani Paxton, PhD in Geography and Environmental Science and Policy, USF
 5. Nathan Shull (graduated in 2021), MA in Geography, USF
 6. Ross Wians, MA in Geography (graduated in 2021), UH - Manoa
 7. Derek Ford, MA in Geography (graduated in 2020), UH – Manoa
 8. Renee Setter, MA in Geography (graduated in 2020), UH – Manoa
 9. Qian Zhang, Ph.D. in Geography, UH - Manoa
 10. Mehran Ghandehari, Ph.D. in Geography (graduated in 2019), University of Colorado - Boulder
 11. Pengdong Zhang, Ph.D. in Geography (graduated in 2018), Ghent University, Belgium
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| 2017 - 2018 | Graduate Committee at the Department of Geography and Environment at UH-Manoa |
| 2018 - 2019 | Undergraduate Committee at the Department of Geography and Environment at UH-Manoa |
| 2017 - 2019 | Organizing Committee of the Geography Symposium at the Department of Geography and Environment at UH-Manoa |
| 2020 - now | Graduate Committee at the School of Geosciences, USF |
| 2020 – now | GIS Committee at the School of Geosciences, USF |
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Professional Organizations

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| 2022 – now | Member of Board of Directors in the International Association of Chinese Professionals in Geographic Information Sciences |
| 2022 – now | Associate Editor of Journal Urban Resilience and Sustainability |
| 2014 – now | Member of American Association of Geographers |
| 2022 | Organizer of Symposium on Scale in Spatial Analytics and Modeling in 2022 Annual Meeting of AAG |
| 2019 | Co-organizer of “GeoAI and Deep Learning Symposium” anBT/TT0 1 Tf810.8 (3sn)10.8 (e)-1.6 2 A - 4. |